

GILA RIVER BASIN

09513890 NEW RIVER AT PEORIA, AZ

LOCATION.--Lat 33°35'43", long 112°15'45", in SE¹/₄ sec.16, T.3 N., R.1 E., Maricopa County, Hydrologic Unit 15070102, at Grand Avenue, 1.75 mi northwest of Peoria.

DRAINAGE AREA.--317 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1943	00-00-43	38,000	HP	1966	12-23-65	4,000	
1960	12-25-59	6,400		1967	06-18-67	600	
1961	07-22-61	250		1968	12-19-67	20,000	ES
1962	00-00-62	0		1969	00-00-69	0	
1963	08-17-63	1,390		1970	09-05-70	20,000	
1964	08-01-64	8,300		1971	08-21-71	7,430	
1965	02-07-65	2,300					

Discharge rating table developed October 1995

Gage height (ft)	Discharge (ft ³ /s)	Gage height (ft)	Discharge (ft ³ /s)
5.0	138	7.0	561
5.5	222	7.5	718
6.0	311	8.0	941
6.5	419	8.8	1,420

Magnitude and probability of instantaneous peak flow based on period of record 1943, 1960-71

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25† 4%	50† 2%	100† 1%
3,160	11,300	20,800	38,000	54,900	75,100
Weighted skew	(logs) =	-0.41			
Mean	(logs) =	3.45			
Standard dev.	(logs) =	0.71			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
65.3	44.1	2,320	0.0	1.0	13.3	1.8	3.8

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